

The University of Chicago

CONCERNING WARING'S PROBLEM
FOR SIXTH POWERS

A DISSERTATION SUBMITTED TO THE FACULTY
OF THE DIVISION OF THE PHYSICAL SCIENCES
IN CANDIDACY FOR THE DEGREE OF DOCTOR
OF PHILOSOPHY

DEPARTMENT OF MATHEMATICS

1934

By
ROBERT CLARENCE SHOOK

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INTRODUCTION

Every integer is a sum of a finite number s of k -th powers.¹ For each value of k there is an ideal theorem in the sense that the value of s which suffices for all integers is also necessary for at least one integer. Lagrange proved that every integer is a sum of four squares; for $k = 3$ the ideal theorem $s = 9$ has been proved.² If $k > 3$ the discrepancy between the proved and the desirable ideal theorems increases with k . This dissertation deals with the value $k = 6$.

For $k = 6$ the best universal result which may be hoped for is $s = 73$, since $703 = 63(1)^6 + 10(2)^6$ is a sum of not fewer than 73 sixth powers. Baer has proved by algebraic methods that every integer is a sum of 478 sixth powers.³ The principle theorem of this paper states that every integer is a sum of 160 sixth powers.

Gelbcke⁴ applied the method of Winogradow to simplify the proof by Hardy and Littlewood of their best result. R. D. James has determined a constant C for which all the inequalities

¹D. Hilbert, "Beweis für die Darstellbarkeit der ganzen Zahlen durch eine feste Anzahl n -ter Potenzen," Mathematische Annalen, 67 (1909), 281-300.

²A. Wieferich, "Beweis des Satzes, dass sich eine jede ganze Zahl als Summe von höchstens neun positiven Kuben darstellen lässt," Mathematische Annalen, 66 (1909), 95-101.

A. J. Kempner, "Über das Waringsche Problem und einige Verallgemeinerungen," Doctoral Dissertation, Göttingen, 1912.

³W. S. Baer, "Beiträge zum Waringschen Problem," Doctoral Dissertation, Göttingen, 1913.

⁴M. Gelbcke, "Zum Waringschen Problem," Mathematische Annalen, 105 (1931), 637-52.

in that paper hold. The manner in which James' result, indicated in Section I, has been supplemented to obtain the principle theorem stated above, may now be briefly outlined.

The table of Section V shows that every integer N between 2,120,044 and 2,164,000 is a sum of at most 23 sixth powers. In Section II this result is extended to include integers N between 2,120,044 and 2,426,144. Using the first two lemmas stated in Section III as applied to the extended interval of Section II, it is next shown that every integer N between 0 and 4,455,559 is a sum of at most 86 sixth powers and that every integer N between 2,120,044 and L_t where $\log \log L_t = 11.012$, is a sum of at most 160 sixth powers. James' result, Section I, states that every integer $N > C$, where $\log \log C = 10.890$, is a sum of 160 sixth powers. Since $L_t > C$, the principle theorem is obtained.

Considerably more table was constructed than was ultimately used in reaching the main result. The information set down in Section IV, copied from these excluded portions of the table, is intended to illustrate the manner in which the number of sixth powers required to represent an integer N decreases as N increases.

SECTION I

RESULTS OBTAINED BY JAMES

For sixth powers R. D. James has obtained the following results. Write

$$d = \log 5 / \log 2, \quad D = (d + 2)5 - 2^{d+1} + 0.1,$$

$$V = \frac{4 \log 2 - \log 6 + \log 4}{\log 6 - \log 5}, \quad H = 4 \cdot 2^4 + 6,$$

$$B = 4 + V, \quad R = 1 + (5/6)^{B-2} 6 \cdot 2^4 - D(B + 2),$$

$$Z = \frac{Ds + R}{s - H - B - 2}, \quad (s > H + B + 2)$$

$$\log C = 20 \cdot 6^3 \cdot 2^Z,$$

where all logarithms are to the base e. Carrying out the computation gives

$$Z = \frac{12.1s - 114.3}{s - 88}.$$

For $s = 160$ the James' results may be stated:

Every integer $> C$ is a sum of 160 sixth powers, if
 $\log \log C = 10.89$. These logarithms are to the base 10.

SECTION II

THE EXTENSION

If an integer N is represented as a sum of sixth powers in the form

$$N = x + Aa + Bb + Cc + Dd + Ff + Gg + Hh + \dots$$

where

$$a = 2^6, \quad b = 3^6, \quad c = 4^6, \quad d = 5^6, \quad f = 6^6, \quad g = 7^6, \quad h = 8^6$$

then

$$x + A + B + C + D + F + G + H + \dots$$

is called the weight of the representation. By the weight of an integer shall be meant the weight of a representation of the integer as a minimum number of sixth powers. In Section V it is shown that every integer between 2,120,044 and 2,164,000 is of weight ≤ 23 . It is the purpose of this section to extend this interval without increasing the weight.

The first step of the extension is indicated in the following table:

To the integers between		add	and obtain integers between	
2,148,376	2,151,074	$d = 15,625$	2,164,001	2,166,699
2,120,044	2,164,000	$f = 46,656$	2,166,700	2,210,656
2,148,376	2,151,074	$d+f = 62,281$	2,210,657	2,213,355
2,120,044	2,144,380	$2f = 93,312$	2,213,356	2,237,692
2,120,044	2,164,000	$g = 117,649$	2,237,693	2,281,649
2,148,376	2,164,000	$d+g = 133,274$	2,281,650	2,297,274
2,132,970	2,164,000	$f+g = 164,305$	2,297,275	2,328,305
2,148,376	2,151,074	$d+f+g = 179,930$	2,328,306	2,331,004
2,120,044	2,144,360	$2f+g = 210,961$	2,331,005	2,355,341
2,120,044	2,146,889	$2g = 235,298$	2,355,342	2,382,187
2,120,044	2,164,000	$h = 262,144$	2,382,188	2,426,144

The integers in the first column are all from the interval which is to be extended and hence have weights ≤ 23 . The integers added to them are sums of at most 3 sixth powers. Consequently, the integers in the last column have weights ≤ 26 . The extension is completed if it can be shown that the representations of weights 24, 25 and 26 of integers in the third column can be replaced by representations of weights ≤ 23 .

Lists are made of all the integers in the first column whose minimum representation requires 21, 22 or 23 sixth powers, and the first differences of these integers are set down on the same sheet. Using these difference tables the additions indicated in the second column are performed. The integers obtained in this way include all those of the third column whose representations, obtained in this way, require more than 23 sixth powers. From each of these integers is now subtracted a sum of t sixth powers, so chosen that the difference lies in an interval of known representations. If this difference is a sum of not more than $23 - t$ sixth powers, then the integer of the third column from which it was obtained is a sum of not more than 23 sixth powers.

To illustrate with a single example, the integer 2,137,641 of the first column has weight 23. Adding $f = 46,656$ as indicated in the second row of the second column, we obtain the integer 2,184,297, of the third column, whose representation obtained in this way requires 24 sixth powers. The difference $2,184,297 - 2d = 2,153,047$ is, however, of weight 20. Consequently, we have found a way of representing $2,184,297 = 2d + 2,153,047$ as a sum of $2 + 20 = 22$ sixth powers.

The following integers are the only ones which cannot be brought back, by the method illustrated above, into the table of Section V. Their representations are seen to be of weights not

more than 23. Values for a, b, c, d, f, g, h are given in the first paragraph of Section II, and $j = 9^6, m = 10^6, r = 11^6$.

$$\begin{aligned}
 2,207,201 &= 5a + 8c + 6d + f + h + r, \\
 2,215,454 &= 2 + 6a + 3b + f + g + 4h + m, \\
 2,218,821 &= 2 + 6a + 2b + c + f + g + 4h + m, \\
 2,219,486 &= 2 + 5a + 3b + c + f + g + 4h + m, \\
 2,219,550 &= 2 + 6a + 3b + c + f + g + 4h + m, \\
 2,222,097 &= 2 + 3a + 5b + 6d + 3g + r, \\
 2,222,762 &= 2 + 2a + 6b + 6d + 3g + r, \\
 2,225,450 &= 3 + 6b + 2c + f + g + 4h + m, \\
 2,231,015 &= 2 + 5a + 3b + d + f + g + 4h + m, \\
 2,235,110 &= 1 + 5a + 3b + c + d + f + g + 4h + m, \\
 2,310,045 &= 2 + 7a + 2b + 3c + 2h + r, \\
 2,328,805 &= 6 + 2a + 5b + h + 2j + m, \\
 2,337,198 &= 3b + 4c + d + j + r, \\
 2,339,746 &= 6a + b + 3c + d + 5h + m, \\
 2,340,411 &= 5a + 2b + 3c + d + 5h + m, \\
 2,341,076 &= 4a + 3b + 3c + d + 5h + m, \\
 2,342,434 &= 5 + 5a + 2b + d + h + 2j + m, \\
 2,343,099 &= 5 + 4a + 3b + d + h + 2j + m, \\
 2,343,163 &= 5 + 5a + 3b + d + h + 2j + m, \\
 2,343,827 &= 4 + 4a + 4b + d + h + 2j + m, \\
 2,349,868 &= 4 + 2a + 4b + c + 3d + 2h + r, \\
 2,352,605 &= 4a + 3b + 2c + 2d + 5h + m, \\
 2,352,759 &= 1 + 6a + 2b + 2c + 3d + 2h + r.
 \end{aligned}$$

Although it is sometimes necessary to make more than one choice of the sum of t sixth powers which is subtracted, it may be stated that t is seldom greater than 3 and that the process succeeds eventually in each case, providing the

CONCLUSION: Every integer between 2,120,044 and 2,426,144
is a sum of 23 sixth powers.

SECTION III

THE ASCENT

In this section the interval of the preceding section is to be extended still farther. Now, however, the weights of the representations of the integers of the interval must be allowed to increase as the interval is extended. The following two lemmas of L. E. Dickson¹ are to be used; logarithms are to the base 10.

LEMMA 1. If every integer $> p$ and $\leq g$ is a sum of $k - 1$ integral sixth powers ≥ 0 , and if m is an integer (preferably the maximum one) for which

$$(m + 1)^6 - m^6 < g - p,$$

then every integer $> p$ and $\leq g + (m + 1)^6$ is a sum of k integral sixth powers ≥ 0 .

LEMMA 2. Let p be an integer ≥ 0 . Let

$$v = (1 - p/L_0)/6, \quad L_0 > p, \quad (vL_0)^{6/5} \geq L_0.$$

Compute L_t by

$$\log L_t = (6/5)^t (\log L_0 + 6 \log v) - 6 \log v.$$

If all integers between p and L_0 inclusive are sums of k integral sixth powers ≥ 0 , then all integers between p and L_t are sums of $k + t$ integral sixth powers ≥ 0 .

¹L. E. Dickson, "Recent Progress on Waring's Theorem and its Generalizations," (§ 3, Theorems 10 and 12 with n replaced by 6), Bulletin of the American Mathematical Society, 39 (1933), 701-27.

Applying Lemma 1 ten successive times, with $m = 8, 10, 11, 16, 21, 29, 42, 64, 106, 191$, to the extended interval of Section II, it follows that every integer between $p = 2,120,044$ and $L_0 = 51,679,845,219,495$ is a sum of 33 sixth powers. If now Lemma 2 be applied, with $k = 33$, $t = 127$, p and L_0 as above, it follows that:

THEOREM I. Every integer between p and L_t , where

$$p = 2,120,044, \quad \log \log L_t = 11.012,$$

is a sum of 160 integral sixth powers ≥ 0 .

For integers $< p$ it is necessary to note that the integers

$$x + A \cdot 2^6, \text{ where } x = 0, 1, \dots, 63 \text{ if } A = 0, 1, \dots, 10$$

$$x = 0, 1, \dots, 24 \text{ if } A = 11$$

$$x + 3^6, \text{ where } x = 0, 1, \dots, 38$$

are all those of the interval 0 to 767 inclusive, and that the greatest weight for x and A in the ranges indicated is 73. Thirteen successive applications of Lemma 1, with $m = 2, 2, 2, 2, 3, 3, 4, 4, 5, 6, 7, 9, 11$, to this interval leads to the conclusion that every integer ≥ 0 and $< L$ (where $L > p$) is a sum of 86 integral sixth powers ≥ 0 . The results of Section I, since $L_t > C$, then provide the principle theorem.

THEOREM II. Every positive integer is a sum of 160 integral sixth powers ≥ 0 .

SECTION IV

CONCERNING PEAKS

The integers whose minimum representations as sums of sixth powers are relative maxima when compared with the weights of the representations of neighboring integers are of interest. These peaks, listed below are from portions of the table not included in Section V.

From 0 to 78,599, the following integers

Number	Wt.	Number	Wt.	Number	Wt.
703	73	12,342	43	39,938	38
3,594	52	14,980	42	43,583	36
4,348	50	16,310	42	46,221	35
4,796	50	19,079	39	47,551	35
8,441	48	20,409	39	70,518	35
8,697	45	35,906	38	77,951	34

have the weights indicated. Furthermore, let N_1 and N_2 be any two successive integers listed above with weights w_1 and w_2 . If N is an integer with weight w and such that $N_1 < N < N_2$, then $w < w_1$ and also $w < w_2$.

From 350,000 to 389,999 no integer is of weight > 27 and the integers 377,124; 379,525 and 387,589 are the only ones of weight 27. The only integers having weight 26 are 350,726; 351,930; 352,056; 354,499; 354,821; 360,743; 361,499; 367,456; 371,552; 371,964; 373,028; 376,395; 377,060; 377,123; 378,796; 379,461; 379,524; 383,493; 386,860; 387,525; 387,588; 387,707; 387,714.

SECTION V

THE TABLE

The table of this section is a table of minimum representations as sums of sixth powers of the integers between 2,120,044 and 2,164,000, constructed according to the ingenious method devised by L. E. Dickson.¹ Since the entries of this table differ by 11^6 from the entries of an earlier table (not included in this dissertation) a comparison of the two tables provided a check. In addition to this, there were certain other checks intrinsic to the method of construction.

For purpose of explanation there has been included a short portion--from 2,145,000 to 2,154,258--of the table in its complete form. Each block of this sample consists of five columns, headed respectively by N (number), D (difference), Rep (representation), Wt (weight), M (maximum). The first entry in any line, that is, the entry occurring in the column headed by N, is the last three digits of the integer which is represented as a sum of sixth powers, the first four digits being given as a heading, under N, at the top of the column. As in a table of logarithms an entry of the first column before which is placed an asterisk, and all entries following it in that column, are understood to be the last three digits of the integer whose first four digits are given as a heading of the first column in the next block of the table. The second entry in each line is the difference between the first entry of that line and the first entry of

¹L. E. Dickson, "Proof of a Waring's Theorem on Fifth Powers," Bulletin of the American Mathematical Society, 37 (1931), 553.

the next line. The third entry is a set of integers, ranging in value from 0 to 9, written without spacing. They are respectively the coefficients of 2^6 , 3^6 , ..., 11^6 in the minimum representation as a sum of sixth powers of the integer of the first entry in the line. It should be noticed that the last coefficient is omitted in case it is zero, the last two are omitted in case they are both zero, and so on. The fourth entry is the sum of these coefficients and hence is the weight of the representation. The final entry is one less than the sum of the second and fourth entries and is thus the weight of a minimum representation as a sum of sixth powers of the integer which is one less than the first entry in the next line.

The table proper has been compressed to two columns by omitting all but the first and last columns; the headings N and M have also been omitted. An example will suffice to illustrate the use of the table. The integer 2,145,008 occurs on page 27 between the entries 001 and 012. The integer 22 opposite 001 is the least number of sixth powers of which $2,145,011 = 10 + 2,145,001$ is a sum. The number $2,145,008 = 7 + 2,145,001$ will then be a sum of $22 - 3 = 19$ sixth powers. It also occurs in the five column sample, from which it is possible to read off its actual representation as a sum of a minimum number of sixth powers; namely

$$2,145,008 = 7 + 2,145,001 = 7(1)^6 + 3(2)^6 + 8(6)^6 + 1(11)^6.$$

The weight is $7 + 3 + 8 + 1 = 19$.

AN EXPLANATORY SAMPLE

N	D	Rep	Wt	M	N	D	Rep	Wt	M
2,145,001	11	3000800001	12	22	2,145,204	7	501210021	12	18
12	9	201210021	9	17	11	2	080003301	15	16
21	1	3301201001	11	11	13	1	6301201001	14	14
22	6	1111030001	8	13	14	6	4111030001	11	16
28	6	0003700001	11	16	20	6	3003700001	14	19
34	8	05010004	10	17	26	5	35010004	13	17
42	6	005220002	11	16	31	5	201500021	11	15
48	4	0304101001	10	13	36	3	0701030001	12	14
52	8	1050030001	10	17	39	1	252101002	13	13
60	1	440020401	15	15	40	1	3304101001	13	13
61	3	221003301	12	14	41	2	020205201	12	13
64	7	04400004	12	18	43	4	010051111	10	13
71	5	070030002	12	16	47	6	0006600001	13	18
76	9	301210021	10	18	53	2	521003301	15	16
85	1	4301201001	12	12	55	1	2411510001	15	15
86	6	2111030001	9	14	56	5	34400004	15	19
92	6	1003700001	12	17	61	5	005510002	13	17
98	5	15010004	11	15	66	5	0200108	11	15
103	8	001500021	9	16	71	4	014105201	14	17
11	1	052101002	11	11	75	2	180003301	16	17
12	4	1304101001	11	14	77	1	7301201001	15	15
16	6	2050030001	11	16	78	6	5111030001	12	17
22	2	003082201	16	17	84	6	4003700001	15	20
24	1	540020401	16	16	90	4	45010004	14	17
25	2	321003301	13	14	94	1	02111251	13	13
27	1	0411510001	13	13	95	5	301500021	12	16
28	7	14400004	13	19	300	3	1701030001	13	15
35	5	170030002	13	17	03	1	352101002	14	14
40	9	401210021	11	17	04	1	4304101001	14	14
49	1	5301201001	13	13	05	2	120205201	13	14
50	6	3111030001	10	15	07	4	110051111	11	14
56	6	2003700001	13	18	11	6	1006600001	14	19
62	5	25010004	12	16	17	2	621003301	16	17
67	8	101500021	10	17	19	1	3411510001	16	16
75	1	152101002	12	12	20	2	44400004	16	17
76	4	2304101001	12	15	22	2	02221422	15	16
80	6	3050030001	12	17	24	6	01206013	13	18
86	2	103082201	17	18	30	4	1200108	12	15
88	1	640020401	17	17	34	7	00023113	10	16
89	2	421003301	14	15	41	1	8301201001	16	16
91	1	1411510001	14	14	42	2	6111030001	13	14
92	5	24400004	14	19	44	8	04210023	12	19
97	2	0171220001	14	15	52	2	01611422	17	18
99	5	270030002	14	18	54	4	55010004	15	18

2120-	2120-	2120-	2120-	2121-	2121-	2121-	2121-
044 17	305 20	524 19	773 18	005 15	197 18	428 16	631 16
45 12	14 16	30 19	74 12	07 19	99 17	30 17	33 13
47 17	17 15	32 18	76 13	13 19	200 15	34 17	35 20
55 16	20 16	43 18	79 13	19 19	03 18	35 18	44 15
56 16	23 17	52 19	81 17	20 15	07 18	39 16	46 16
58 20	25 15	54 19	87 12	23 16	08 15	44 17	49 18
69 18	30 17	56 20	89 19	25 16	14 16	52 12	52 17
81 16	37 16	59 15	98 15	27 16	16 20	54 19	53 17
86 15	38 18	60 13	806 16	29 17	24 15	63 17	55 18
92 15	42 16	62 12	10 15	32 13	25 18	64 17	63 18
98 17	45 17	65 12	13 12	33 21	36 14	68 16	70 15
101 17	48 18	71 17	15 16	43 16	39 18	69 16	72 16
07 18	53 19	77 20	21 16	45 15	44 16	70 17	75 19
09 13	55 15	81 17	27 18	46 16	46 18	72 18	84 19
11 17	58 18	84 15	30 16	49 17	50 16	74 17	85 19
20 17	62 16	86 15	34 19	52 18	53 20	76 17	92 17
22 19	64 17	88 20	38 14	54 15	59 20	78 12	95 17
31 15	67 13	94 19	40 14	58 13	61 19	80 16	97 13
33 18	69 18	95 17	45 18	61 17	72 15	86 16	98 21
44 16	75 19	96 19	51 13	67 17	77 15	92 17	708 16
45 17	78 15	607 16	53 18	69 16	80 21	94 18	10 17
50 16	79 18	13 17	60 16	71 17	88 16	98 18	13 17
56 16	89 16	15 19	62 16	74 18	89 13	99 19	14 18
62 18	94 13	21 12	70 15	77 19	94 13	503 14	16 17
65 13	96 17	26 13	74 16	82 20	300 15	05 14	17 18
66 16	402 19	29 13	77 13	84 15	03 16	08 18	19 15
70 14	06 15	35 18	79 17	86 15	05 15	16 13	23 13
73 14	07 15	41 19	85 17	89 17	08 17	18 17	26 17
75 11	12 16	43 19	91 19	93 18	10 18	24 17	32 17
77 18	14 16	45 16	94 14	96 13	13 15	27 16	34 16
86 20	15 16	46 14	95 17	97 19	14 15	35 17	36 17
95 15	24 17	51 15	99 15	104 18	15 16	39 16	39 17
97 16	26 17	57 15	902 15	05 17	17 19	42 13	45 14
205 17	28 18	59 20	04 12	07 16	21 16	44 17	56 18
09 18	31 14	71 15	06 19	08 15	25 17	50 17	61 14
14 17	33 17	75 15	15 14	14 18	33 19	56 18	62 14
20 17	37 17	77 15	17 19	18 16	36 16	58 16	64 18
26 17	42 16	79 20	24 16	22 14	41 16	59 17	72 17
27 17	43 19	85 12	26 17	25 18	44 20	63 20	74 16
34 15	53 17	89 14	34 16	31 18	50 11	67 15	75 17
37 15	58 14	93 14	38 17	33 17	53 14	69 13	78 18
39 12	60 18	99 19	41 14	35 16	58 14	72 19	81 19
41 19	66 20	705 19	43 18	36 16	64 15	80 14	83 16
50 18	70 16	09 17	49 18	41 17	66 18	82 15	87 14
56 16	71 15	10 15	55 18	43 17	72 18	85 17	90 18
58 15	75 15	15 16	56 18	44 14	74 17	88 16	96 18
59 16	76 17	21 16	63 16	50 16	75 15	89 17	98 17
61 14	79 17	23 11	66 16	53 16	80 15	91 17	800 18
66 18	88 18	25 19	68 12	55 19	85 16	99 16	03 18
73 15	90 18	35 16	69 20	60 14	88 15	603 17	09 15
74 17	92 19	39 16	79 15	61 18	94 20	06 14	20 19
78 18	95 14	41 16	81 17	66 18	400 16	08 17	25 14
84 18	96 15	43 17	85 17	71 17	04 15	13 15	26 17
90 18	501 17	45 18	87 16	72 13	05 15	14 18	37 16
91 14	05 17	49 11	88 17	75 19	06 16	20 19	43 17
94 17	07 16	51 15	90 15	82 17	08 21	22 17	45 15
98 15	13 19	57 15	95 14	86 15	14 12	23 15	47 17
300 16	17 18	63 20	97 16	89 19	17 15	24 18	51 15
03 13	22 15	69 20	*003 16	95 19	22 15	28 16	54 19

2121-	2122-	2122-	2122-	2122-	2123-	2123-	2123-
860 19	117 16	362 20	593 18	854 17	101 21	326 17	575 18
62 18	23 17	72 20	94 15	57 16	02 17	31 13	81 17
64 17	25 17	73 16	96 17	58 17	04 17	37 18	85 17
65 14	29 17	75 17	99 19	65 16	06 17	43 18	86 17
67 18	37 22	78 18	602 17	72 13	09 19	47 10	87 17
72 18	43 13	80 18	13 21	74 13	13 15	48 20	93 17
73 16	46 16	84 14	18 9	75 17	16 12	59 16	94 17
84 20	51 16	87 11	19 19	80 17	18 20	62 13	601 14
89 15	57 17	89 19	30 15	86 18	28 17	64 19	03 14
90 18	59 16	99 16	33 17	88 16	30 18	72 16	04 15
901 14	61 19	401 17	40 18	89 15	33 15	74 17	06 15
04 18	68 14	04 15	43 15	90 20	36 21	77 15	09 18
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67	13	93	17	12	16	66	14	81	18	27	21	95	15	900	14
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86	15	04	14	22	17	86	17	98	17	47	18	08	11	08	19
87	14	07	15	23	17	89	15	205	19	51	18	09	11	15	13
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301	14	29	14	37	18	*004	16	32	16	74	21	25	13	27	13
02	18	30	16	45	20	09	14	33	15	77	16	26	19	29	18
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24	16	46	17	76	17	20	19	58	15	05	18	45	15	54	18
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2163-	2163-	2163-	2163-	2163-	2163-	2163-	2163-
029 16	142 15	275 16	404 13	504 18	615 11	732 13	865 17
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92 21	24 21	61 15	74 16	67 14	91 18	07 14	49 11
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07 16	35 18	70 15	77 19	75 19	94 16	12 20	62 16
08 13	36 15	73 11	84 18	80 15	95 16	19 18	68 21
09 18	37 19	74 11	88 17	83 16	96 16	21 19	74 12
15 18	43 20	75 18	89 17	85 18	701 19	32 20	77 16
16 18	45 12	83 16	94 16	89 17	06 15	34 19	83 15
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19 15	55 14	88 14	99 13	93 20	20 14	46 19	88 15
20 13	59 14	90 13	501 13	602 18	21 18	48 16	89 17
22 18	60 20	91 19	02 13	04 16	26 18	49 19	95 18
31 17	70 15	98 14	03 13	05 16	31 17	60 15	99 16
37 21		400 13		07 19		63 16	

VITA

Robert Clarence Shook was born in Oxford, Ohio, on May 21, 1904. He attended public and high schools in that town until June 1920. Entering Miami University the same year, he received his B. A. degree from that institution in June 1924. He entered the University of Chicago in the summer quarter, 1926, and remained in residence for eight quarters, receiving the M. S. degree at the end of the summer quarter, 1927. He was again in residence during the summer and fall quarters, 1933, having been at Northwestern University as an instructor from 1928 to 1933. While at the University of Chicago he took courses offered by Professors Bartky, Bliss, Dickson, Graves, Lane, Logsdon and Lunn.

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